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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/643,054	08/18/2003	Vedat T. Ataman	2002-09	3101

7590 10/14/2004  
VYTAS R. MATAS  
2412 CEDARWOOD RD.  
PEPPER PIKE, OH 44124

EXAMINER

KRAMSKAYA, MARINA

ART UNIT PAPER NUMBER

2858

DATE MAILED: 10/14/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/643,054

Applicant(s)

ATAMAN ET AL.

Examiner

Marina Kramskaya

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-5 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-5 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 1/12/04 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_.

## **DETAILED ACTION**

### ***Information Disclosure Statement***

1. The listing of references in the specification is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609 A(1) states, "the list may not be incorporated into the specification but must be submitted in a separate paper." Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered.

Further, the references, US 5,571,132 and US 4,787,244, listed in the disclosure are not of relevant art and do not match the provided description.

### ***Drawings***

2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference characters "12" and "20" have both been used to designate the lines connected to the transformers in Figure 1. However in Figures 2 and 3, the reference character "20" has been designated to voltage wires as in the disclosure. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to

obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

3. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: "25". Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

#### ***Claim Objections***

4. Claim 1 is objected to because of the following informalities: Line 17 "having *connect* to said E-plug" should be "having a *connection* to said E-plug". Appropriate correction is required.

***Claim Rejections - 35 USC § 102***

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Ricciuti, Jr., US 5,923,527.

Ricciuti discloses a high voltage monitoring system comprising:

a motor control enclosure having high voltage lines extending thereunto from a high voltage source and extending therefrom the power to a high voltage motor (FIG. 1);

a current transformer **116** located on each high voltage line in said motor control enclosure (FIG. 1) for measuring the current in each high voltage line (ABS, lines 16-19) and producing a low voltage signal proportional to the measured current;

a plug module **70** located inside said motor control enclosure (column 3, lines 51-59) connected to each of said current transformers for processing said low voltage signals there from for use by an externally located motor monitoring system (column 5, lines 34-36, 40-43);

a quick conned means **78** mounted on an outside surface of said motor control enclosure having conned to said plug module inside said enclosure (column 4, lines 16-28) and to a motor monitoring system outside said enclosure.

***Claim Rejections - 35 USC § 103***

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ricciuti in view of Blades, US 5,223,795.

Ricciuti discloses monitoring systems as applied to Claim 1 above.

Ricciuti does not disclose the current transformer as having a “donut shape” and high voltage lines extending there through.

Blades discloses a monitoring system for motors, including a current transformer **82** having a “donut shape” and a high voltage line **83** extending there through.

It would have been obvious to one skilled in the art at the time of the invention to implement a “donut shape” current transformer as taught by Blades in Ricciuti with a high voltage lines extending there through in order to monitor current and provide voltage isolation, which could not be achieved with current probes alone.

9. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ricciuti in view of Blades, and further in view of Brunson, US 5,568,033.

Ricciuti in view of Blades discloses the motor monitoring systems as applied to Claims 1 & 2 above. Ricciuti further discloses a door **12** mounted on the motor control enclosure.

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Ricciuti does not disclose a quick connect means mounted on the said door.

Brunson discloses a system wherein said motor control enclosure has a door thereto and said quick connect means are mounted thereto (FIG. 3, column 6, lines 12-15).

It would have been obvious to one skilled in the art at the time of the invention to include a connection on the door of the motor control enclosure as taught by Brunson in Ricciuti as modified to have access to the motor control inside as well as a connections to the monitoring system located in one place for convenience.

10. Claims 4 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ricciuti view of Blades and Brunson, and further in view of Kennedy, US 2004/0120109.

Ricciuti as modified discloses a motor monitoring system as applied to Claims 1-3 above.

Ricciuti as modified does not disclose the quick connect means as a RJ-45 plug or a quick connect cable connected from the RJ-45 to a motor signature monitoring system.

Kennedy discloses motor control enclosure system wherein said quick conned means includes an RJ-45 plug 14 mounted on the outside of the enclosure and a quick connect cable (Ethernet cable) extended outside said enclosure for connection to a motor signature monitoring system (paragraph 0005).

It would have been obvious to one skilled in the art at the time of the invention to include a an RJ-45 plug and a quick connect cable as taught by Kennedy in Ricciuti as

modified connection on the door, as taught by Brunson above, of the motor control enclosure in order to ensure an easy connection to the monitoring system and to have access to the motor control inside.

As per Claim 5, Ricciuti as modified does not disclose the motor signature monitoring system as an EMPATH type system.

Brunson further discloses a system wherein said motor signature monitoring system is an EMPATH type system, where the system is hardware 1 for testing and analyzing motor performance based on motor parameters (column 1, lines 15-21).

It would have been obvious to one skilled in the art at the time of the invention to include an EMPATH type system as taught by Brunson, in Ricciuti as modified, in order to have a unified motor analysis system.

### ***Conclusion***

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Dowling, US 6,128,583, discloses a motor analyzing system of an EMPATH type. Owen, US 5,130,616, discloses a motor control system enclosed in a housing with monitoring capabilities.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marina Kramskaya whose telephone number is (571)272-2146. The examiner can normally be reached on M-F 7:00-3:30.



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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, N. Le can be reached on (571)272-2233. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MK

Marina Kramskaya  
Examiner  
Art Unit 2858

*M. Kramskaya*



N. Le  
Supervisory Patent Examiner  
Technology Center 2800